

# BOARD OF FIREFIGHTING PERSONNEL STANDARDS AND EDUCATION

Fire Inspector I

Sample Test



7/10/15

Version 0

**Fire Inspector 1**

1. IFSTA, Fire Inspection and Code Enforcement, 7 Edition, 1st Printing
2. NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, 2009 Edition

1. When comparing bonding with grounding, which statement is MOST accurate?
  - A. Grounding connects two objects that conduct electricity.
  - B. Both are two ways to dissipate static charges.
  - C. Bonding connects a conductor to the ground.
  - D. A ground-fault interrupter (GFI) uses bonding.
2. Which is an accurate statement about fire prevention with private water supply systems?
  - A. They can be available strictly for fire prevention purposes.
  - B. They can be from water storage tanks, reservoirs, or rivers.
  - C. When a private water supply is used, it always has to be nonpotable.
  - D. When a private water supply is used, it can never be nonpotable.
3. What is the inspection procedure for a clean-agent fire extinguishing system?
  - A. Annual inspection of system components and semi-annual check of quantity and pressure of the clean-agent
  - B. Annual inspection of system components and the quantity and pressure of the clean-agent
  - C. Semi-annual inspection of system components and annual check of quantity and pressure of the clean-agent
  - D. Semi-annual inspection of system components and the quantity and pressure of the clean-agent
4. Which of the following involves connecting two objects that conduct electricity with something that is also a conductor?
  - A. Bonding
  - B. Conducting
  - C. Grounding
  - D. Power surge
5. What is the correct statement concerning foam expansion rates and their use?
  - A. Low-expansion foam works effectively when fuel liquid is less than 212° F (100° C).
  - B. Low-expansion foam concentrate is the most effective wetting agent.
  - C. High-expansion foam is not effective in subterranean areas.
  - D. High-expansion foam has an expansion rate of 20:1 when used.
6. Overfiring in a solid-fuel room heater is defined as:
  - A. developing a fire in the chimney.
  - B. overheating the heater until it glows red with heat.
  - C. using the wrong fuel to ignite the fire, creating huge flames.
  - D. burning the creosote out of the chimney and flues.
7. When comparing cast iron with steel, it is important to remember that:
  - A. the higher content of carbon makes cast iron hard but brittle.
  - B. the lower content of carbon makes cast iron hard but brittle.
  - C. the higher content of carbon makes steel stronger.
  - D. steel is more brittle and more likely to fracture.

8. A protected premises alarm system is somewhat limited because it is:
- A. visible and not audible.
  - B. audible and not visible.
  - C. not designed for off-site reporting.
  - D. not going to use smoke detectors.
9. The process that can form solids due to chemical reactions and cause obstructions by falling to the bottom in the water mains is called:
- A. encrustation.
  - B. oxidation.
  - C. precipitation.
  - D. rusting.
10. What is the MOST accurate statement regarding secondary power supply for a fire and alarm system?
- A. It can be a storage battery and battery charger.
  - B. Dry-cell batteries are an acceptable secondary source.
  - C. One manual starting engine-driven generator will suffice.
  - D. It can use the primary power source as the secondary as well.
11. One- or two-family housing in most jurisdictions are:
- A. totally exempt from the model codes.
  - B. subject to the same inspections as boarding houses.
  - C. not subject to periodic inspections.
  - D. subject to periodic inspections.
12. The inspection of the conversion of a warehouse into a movie theater falls under what category of inspection?
- A. Issuance of a permit
  - B. New construction
  - C. Change in occupancy
  - D. Owner/occupant request
13. The code draft process which writes the actual language of the new code should include language that:
- A. includes major modifications of the model code related to the amendment.
  - B. includes a new numbering system by adding a new number at the beginning.
  - C. begins with the specific and proceeds to the general.
  - D. begins with the general and proceeds to the specific.
14. Prior to entering a facility for a scheduled inspection:
- A. make sure previous photographs were brought.
  - B. test the sprinkler system.
  - C. flush the hydrant
  - D. check for address posting and changes to exterior.

15. An aquifer can be a part of which component of an effective public water supply distribution system?
- A. Means of moving the water
  - B. Distribution system (including storage)
  - C. Water supply source(s)
  - D. Processing or treatment facilities
16. Which of the four basic types of automatic sprinklers is continually charged with water under pressure?
- A. Wet-pipe sprinkler system
  - B. Dry-pipe sprinkler system
  - C. Deluge sprinkler system
  - D. Preaction sprinkler system
17. Which is the MOST accurate statement about fire walls?
- A. The fire resistance of the wall needs to be on one side only.
  - B. Rarely will a fire wall need to have a rating of more than 2 hours.
  - C. Concrete or gypsum board is rarely used as material in fire walls.
  - D. Facilities protected by a sprinkler system may not need fire walls.
18. When foam extinguishes a fire by intervening between the fuel and the fire, the method is called:
- A. smothering.
  - B. cooling.
  - C. suppressing.
  - D. separating.
19. An important issue to remember in the installation of security windows is that:
- A. most security windows hinder escape and rescue access.
  - B. most security windows hinder proper ventilation.
  - C. most security windows hinder lighting.
  - D. most security windows violate safety codes.
20. Which of the following statements regarding ceilings and fire related issues is MOST accurate?
- A. New ceilings installed below old ceilings cannot conceal roof structure.
  - B. The use of mineral tiles for ceilings is seldom allowed.
  - C. Materials used in a return-air plenum must be rated for plenum use.
  - D. Seldom is gypsum a component of a fire resistant code requirement.
21. Unless amended by local codes, which area of a one- or two-family dwelling can be omitted from sprinkler coverage?
- A. Kitchens
  - B. Living rooms
  - C. Bedrooms
  - D. Garages

22. To produce high-quality fire fighting foam, there must be:
- A. foam concentrate, water, air, and mechanical agitation.
  - B. the right proportion of water and foam concentrate.
  - C. foam concentrate and correct air pressure nozzles.
  - D. the mechanical agitation of foam and water.
23. An aspect of remote receiving systems is that they:
- A. are commonly used along with central station systems.
  - B. are common in localities not served by central station systems.
  - C. should not be located in unoccupied facilities.
  - D. will not be monitored by local police telecommunication centers.
24. The most frequent cause of fire in structures, according to the National Fire Incident Reporting System report released in August 2007, is:
- A. heating equipment.
  - B. cooking equipment.
  - C. human-caused, intentionally set.
  - D. children playing with ignition sources.
25. Which is the MOST accurate statement about closing devices on fire doors?
- A. A fusible link is fast and effective as a door closer.
  - B. Smoke detector activated door closer close more quickly
  - C. Electromagnetic door holders are not allowed in health care facilities.
  - D. Smoke detector activators are inexpensive and low maintenance.